

**Draft**

**STATE OPERATING PERMIT  
STATIONARY SOURCE PERMIT TO OPERATE  
This permit includes designated equipment subject to  
New Source Performance Standards (NSPS) Subpart OOO: Standards of Performance for  
Non-Metallic Mineral Processing Plants**

This permit supersedes your permits dated August 21, 1992, October 8, 2002, March 1, 2005  
and March 24, 2005

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia  
Regulations for the Control and Abatement of Air Pollution,

O-N Minerals – James River Operations  
684 Parkway Drive  
P.O. Box 617  
Buchanan, VA 24066  
Registration No.: 20320  
County-Plant ID No.: 023-00001

is authorized to operate

a coarse aglime mill, a grinding mill and a sand circuit crusher

located at

O-N Minerals – James River Operations Buchanan plant (Plant #2)  
589 Parkway Drive, Buchanan, in Botetourt County, Virginia

in accordance with the Conditions of this permit.

Approved on Draft

---

Steven A. Dietrich, P.E.  
Regional Director, Department of Environmental Quality

Permit consists of 1 pages.  
Permit Conditions 1 to 41.

## **INTRODUCTION**

This permit approval is based on the permit application dated July 2, 2007, supplemental information received by email on August 15, 2007 and amendment information received on August 30, 2007. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the Department of Environmental Quality (DEQ) or the State Air Pollution Control Board (Board) for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

## **PROCESS REQUIREMENTS**

1. **Equipment List** - Equipment at this facility consists of the following:

<b>Equipment installed consists of:</b>				
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>	<b>Original Permit Date</b>
336-4-BN01	OCF Bin	50 tons/hour	NSPS Subpart OOO	August 21, 1992
336-4-SC04	OCF Bin Screw Conveyor	50 tons/hour		August 21, 1992
475-5-LS01	Mineral Filler Loadout Chute	100 tons/hour		August 21, 1992
336-4-SC03	OCF Screw Conveyor	50 tons/hour		October 8, 2002
336-4-SC01	Mill 25 Dust Collector Screw Conveyor	10 tons/hour		October 8, 2002
336-4-RM01	Mill 25 (Old Mill #5)	36 tons/hour	NSPS Subpart OOO	October 8, 2002
336-4-CY01	Mill 25 Cyclone	36 tons/hour	NSPS Subpart OOO	October 8, 2002
336-4-VF01	Mill 25 Vibratory Feeder	50 tons/hour		October 8, 2002
311-1-BN03	Mill 25 Feed Bin	100 tons/hour	NSPS Subpart OOO	October 8, 2002
311-1-BC06	Mill 25 Feed Bin Conveyor	100 tons/hour	NSPS Subpart OOO	October 8, 2002

<b>Equipment installed consists of:</b>				
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>	<b>Original Permit Date</b>
336-5-HC01	Hammermill	60 tons/hour	NSPS Subpart OOO	March 1, 2005
336-5-VS01	Hammermill Screen	60 tons/hour	NSPS Subpart OOO	March 1, 2005
336-5-BE01	Hammermill Bucket Elevator	60 tons/hour	NSPS Subpart OOO	March 1, 2005
336-5-SC01	Hammermill Discharge Screw Conveyor #1	60 tons/hour		March 1, 2005
336-5-MI01	Hammermill Discharge Screw Conveyor #2	5 tons/hour		March 1, 2005
336-5-BC01	Hammermill Feed Belt Conveyor	100 tons/hour	NSPS Subpart OOO	March 1, 2005
336-5-BC02	Hammermill Product Belt Conveyor	45 tons/hour	NSPS Subpart OOO	March 1, 2005
311-1-BN05	Hammermill Feed Bin	100 tons/hour	NSPS Subpart OOO	March 1, 2005
336-5-VF01	Hammermill Vibratory Feeder	45 tons/hour		
311-1BN04	VSI 22 Crusher Feed Bin	100 tons/hour		May 24, 2005
340-2-VF01	VSI 22 Vibratory Feeder	50 tons/hour		
340-2-IM01	VSI 22 Cedarapids Vertical Shift Impact Crusher	150 tons/hour	NSPS Subpart OOO	May 24, 2005
340-2-SC01	VSI 22 Discharge Screw Conveyor	150 tons/hour		May 24, 2005
340-2-BE01	VSI 22 Main Elevator	150 tons/hour	NSPS Subpart OOO	May 24, 2005
340-2-SC02	VSI 22 Screen Feed Screw Conveyor	150 tons/hour		May 24, 2005
340-2-VS01	Midwestern Multivibe Screen	60 tons/hour	NSPS Subpart OOO	
340-2-SC03	VSI 22 Screen Discharge Screw Conveyor	45 tons/hour		May 24, 2005
340-2-SC07	Mill #4 Dust Collector Screw Conveyor	1 ton/hour		May 24, 2005
340-2-BE02	VSI 22 Separator Feed Bucket Elevator	45 tons/hour		May 24, 2005
340-2-SR01	VSI 22 Air Separator	50 tons/hour		May 24, 2005
340-2-SC05	VSI 22 Dust Collector Discharge Screw Conveyor	5 tons/hour		May 24, 2005
340-2-SC04	Common Products Screw Conveyor	40 tons/hour		May 24, 2005
340-2-BN05	Tuff Shell Bin #2	100 tons/hour		May 24, 2005
340-2-BN02	Feed Grade Bin #2	100 tons/hour		May 24, 2005
340-2-BN01	Feed Grade Bin #1	100 tons/hour		May 24, 2005
340-2-BN03	Feed Grade Bin #3			May 24, 2005
475-6-SC01	Riverside Loadout Bin	30 tons/hour		
475-6-SC02	Cleanout Screw Conveyor	30 tons/hour		May 24, 2005
340-2-SC06	VSI 22 2 <sup>nd</sup> DC Discharge Screw Conveyor	5 tons/hour		May 24, 2005
475-6-LS01	Feed Grade Loadout Spout #1	100 tons/hour		
475-6-LS02	Feed Grade Loadout Spout #2	100 tons/hour		
475-6-LS03	FG Rail Loadout Spout #3	100 tons/hour		
475-6-LS04	FG Trackside Loadout Spout	100 tons/hour		
475-6-LS05	Tuff Shell Loadout Spout	100 tons/hour		

<b>Equipment installed consists of:</b>				
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>	<b>Original Permit Date</b>
340-2-BN04	Tuff Shell Bin #1	2 tons/hour	NSPS Subpart OOO	
475-6-SC05	Tuff Shell Loadout Screw Conveyor	8 tons/hour		
475-6-BC01	#4 Feed Grade Bin Loadout Belt Conveyor	100 tons/hour	NSPS Subpart OOO	
475-6-BC02	Tuff Shell Loadout Belt Conveyor	100 tons/hour	NSPS Subpart OOO	

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.  
(9 VAC 5-80-850 F 3)

2. **Emission Controls** – Particulate and PM-10 emissions from the OCF storage bin and loadout chute shall be controlled by a fabric filter baghouse (#336-4-BF01). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the OCF storage bin and loadout chute are operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)
3. **Emission Controls** – Particulate and PM-10 emissions from the Mill 25 (old mill #5) and Mill 25 feed bin conveyor shall be controlled by a fabric filter baghouse (#336-4-BF01). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the Mill 25 and Mill 25 feed bin screw conveyor are operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)
4. **Emission Controls** – Particulate and PM-10 emissions from the Hammermill circuit shall be controlled by a fabric filter baghouse (#336-5-BF01). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the Hammermill circuit is operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)
5. **Emission Controls** – Particulate and PM-10 emissions from the VSI 22 vertical impact crusher, and the VSI 22 discharge screw conveyors shall be controlled by a fabric filter baghouse (#340-2-BF01). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the VSI 22 vertical impact crusher and VSI 22 screw conveyors are operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)
6. **Emission Controls** – Particulate and PM-10 emissions from the Feed Grade loadout spout #1 and #2 and Feed Grade Rail loadout spout #3 shall be controlled by a fabric filter baghouse (#475-6-BF01). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the Feed Grade loadout spouts are operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)

7. **Emission Controls** – Particulate and PM-10 emissions from the Feed Grade Trackage loadout spout and the Tuff Shell loadout spout shall be controlled by a fabric filter baghouse (#475-6-BF02). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the Feed Grade Trackage loadout spout and the Tuff Shell loadout spout s are operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)
8. **Emission Controls** – Particulate and PM-10 emissions from the Mill 25 feed bin and the Mill Feed loadout spout shall be controlled by a fabric filter baghouse (#311-1-BF2). The fabric filter baghouse shall be provided with adequate access for inspection and shall be in operation when the Mill 25 Feed bin and the Mill Feed loadout spout is operating.  
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)
9. **Fugitive Dust and Fugitive Emission Controls** – Fugitive dust and Fugitive emission controls shall include the following, or equivalent, as approved by DEQ:
  - a. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; paving of roadways, and maintenance of roadways in a clean condition.
  - b. Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered, or treated in an equally effective manner at all times when in motion.
  - c. Dust from material handling, screens, crushers, transfers, hammermills, and load-outs, shall be controlled by wet suppression or equivalent. The wet suppression spray systems shall be operated at optimum design. Pressure gauges **or** flow meters shall be installed with adequate access for inspection to indicate system operating pressures **or** flow rates.
  - d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.  
(9 VAC 5-50-90, 9 VAC 5-80-850 and 9 VAC 5-50-260)
10. **Monitoring Devices** - The fabric filters shall be equipped with devices to continuously measure the differential pressure drop across the fabric filters. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the fabric filter is operating.  
(9 VAC 5-50-50, 9 VAC 5-50-40 F, 9 VAC 5-80-850 F and 9 VAC 5-80-890)

11. **Monitoring Device Observation** – To ensure good performance, the fabric filter monitoring devices used to continuously measure the differential pressure drop shall be observed by the permittee with a frequency of not less than once per day. The permittee shall keep a log of the observations from the fabric filter monitoring devices.  
(9 VAC 5-80-850)
12. **Emissions Testing** - The fabric filter baghouses shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.  
(9 VAC 5-50-30, 9 VAC 5-80-850 and 9 VAC 5-80-880)

### **OPERATING LIMITS**

13. **Throughput** - The throughput of aggregate material through the OCF storage bin, loadout chute and screw conveyor shall not exceed 402,960 tons per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-850)
14. **Throughput** - The throughput of aggregate material through the Raymond Mill 25 shall not exceed 315,360 tons per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-850)
15. **Throughput** - The throughput of stone processed in the Plant #2 Hammermill circuit shall not exceed 262,800 tons per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-850)
16. **Throughput** - The throughput of crushed stone from tertiary crushing at the Vertical Shaft Impact Crusher (VSI 22) circuit at Plant #2 shall not exceed 525,600 tons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-850)
17. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Condition 1 shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart OOO.  
(9 VAC 5-50-400, 9 VAC 5-50-410, and 9 VAC 5-80-850)

### **EMISSION LIMITS**

18. **Process Emission Limits** - Emissions from the operation of Plant #2 processing equipment shall not exceed the limits specified below:

PM-10                      0.022 gr/dscf (baghouse exhaust)

These emissions are derived from the estimated overall emission contribution from the Operating Limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 13, 14, 15 and 16.  
(9 VAC 5-50-260 and 9 VAC 5-80-850)

19. **Visible Emission Limit** - Visible emissions from the fabric filter baghouse stack (#336-4-BF01), which controls the OCF storage bin, load-out chute, Mill 25 and Mill 25 feed bin conveyor shall not exceed seven percent (7%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and 9 VAC 5-80-850)
20. **Visible Emission Limit** - Visible emissions from the fabric filter baghouse stack (#336-5-BF01), which controls the Hammermill circuit shall not exceed seven percent (7%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and 9 VAC 5-80-850)
21. **Visible Emission Limit** - Visible emissions from the fabric filter baghouse stack (#340-2-BF01), which controls the VSI 22 vertical impact crusher, VSI 22 discharge screw conveyors, the #4 Feed Grade bin loadout belt conveyor and the Tuff Shell loadout belt conveyor shall not exceed seven percent (7%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and 9 VAC 5-80-850)
22. **Visible Emission Limit** - Visible emissions from the fabric filter baghouse stack (#475-6-BF01), which controls the Feed Grade loadout spouts #1 and #2, the Feed Grade Rail loadout spout #3, and the Tuff Shell loadout belt conveyor shall not exceed seven percent (7%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and 9 VAC 5-80-850)
23. **Visible Emission Limit** - Visible emissions from the fabric filter baghouse stack (#475-6-BF02), which controls the Feed Grade Trackside loadout spout and the Tuff Shell loadout spout shall not exceed seven percent (7%) opacity as determined by the EPA Method 9

(reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and 9 VAC 5-80-850)

24. **Visible Emission Limit** - Visible emissions from the fabric filter baghouse stack (#311-1-BF2), which controls the Mill 25 feed bin and the Mill Feed loadout spout shall not exceed seven percent (7%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and 9 VAC 5-80-850)

25. **Visible Emission Limit** - Visible emissions from screening, surge bins, conveyor transfers and fugitive emission sources shall not exceed ten percent (10%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).

(9 VAC 5-50-410 and 9 VAC 5-80-850)

### **CONTINUING COMPLIANCE**

26. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.

(9 VAC 5-50-30 and 9 VAC 5-80-880)

27. **Visible Emissions Evaluations** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.

(9 VAC 5-50-30 and 9 VAC 5-80-880)

### **INITIAL COMPLIANCE DETERMINATION**

28. **Initial Visible Emission Evaluations** – Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A Method 9 shall be conducted by the permittee on the following equipment:

475-6-BF01 - Feed Grade River Side Loadout Chute Fabric Filter Exhaust

475-6-BF02 – Feed Grade Trackside Loadout Chute Fabric Filter Exhaust

475-6-BC01 - #4 Feed Grade Bin Loadout Belt Conveyor

475-6-BC02 – Tuff Shell Loadout Belt Conveyor

The evaluation shall consist of thirty (30) sets of twenty-four (24) consecutive observations (at fifteen (15) second intervals) to yield a six (6) minute average. The details of the tests are to be arranged with the Air Compliance Manager, West Central Region. The permittee shall

submit a test protocol at least 30 days prior to testing. The evaluation shall be conducted within 60 days of achieving the maximum production rate but in no event later than 180 days after start-up of the affected unit. One copy of the test results shall be submitted to the Air Compliance Manager, West Central Region within 45 days after test completion and shall conform to the test report format enclosed with this permit.  
(9 VAC 5-50-30 and 9 VAC 5-80-880 )

**29. Visible Emissions Evaluation** – Visible Emission Evaluations required in Condition 28 may be reduced to ten (10) sets of twenty-four (24) consecutive observations (at fifteen (15) second intervals) to yield a six minute average if:

- a. There are no individual readings greater than ten percent (10%) opacity for the fabric filters and belt conveyors and
- b. There are no more than three (3) readings greater than ten percent (10%) opacity for the one (1) hour period for the fabric filters and belt conveyors.

(9 VAC 5-80-1200, 40 CFR 60.675 (C)(3) and 9 VAC 5-50-410)

## **RECORDKEEPING AND REPORTING**

**30. On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of aggregate material through the OCF storage bin, loadout chute and screw conveyor, calculated monthly as the sum of each consecutive 12-month period.
- b. Annual throughput of aggregate material through the Raymond Mill 25, calculated monthly as the sum of each consecutive 12-month period.
- c. Annual throughput of stone processed in the Plant #2 Hammermill circuit, calculated monthly as the sum of each consecutive 12-month period.
- d. Annual throughput of crushed stone from tertiary crushing at the Vertical Shaft Impact Crusher (VSI 22) circuit at Plant #2, calculated monthly as the sum of each consecutive 12-month period.
- e. Operation and control device monitoring records for the fabric filter(s) as required in Condition 11.

- f. Records of equipment malfunction or control device bypass as required in Conditions 33 and 34.
- g. Scheduled and unscheduled maintenance and operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-50-50 and 9 VAC 5-80-900)

**31. Reports for Facility or Control Equipment Malfunction** – Within 30 days of a failure or malfunction that is expected to exist for 30 days or more, and semi-monthly thereafter until the failure or malfunction is corrected, the permittee shall furnish written reports to the Air Compliance Manager, West Central Regional Office containing the following:

- a. Identification of the specific facility that is affected as well as its location and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of air pollutant emissions likely to occur during the breakdown period;
- d. Measures taken to reduce the emissions to the lowest amount practicable during the breakdown period;
- e. A statement as to why the owner was unable to obtain parts or perform repairs that which would allow compliance with the provisions of these regulations within 30 days of the malfunction or failure;
- f. An estimate, with reasons given, of the duration of the shortage of repairs or repair parts which would allow compliance with the provisions of these regulations; and
- g. Any other pertinent information as may be requested by the board.

(9 VAC 5-20-180D, 9 VAC 5-50-50 and 9 VAC 5-80-850)

**NOTIFICATIONS**

**32. Initial Notifications** - The permittee shall furnish written notification to the Air Compliance Manager, West Central Regional Office of:

- a. The actual date on which construction of the FG riverside and FG trackside fabric filters as well as the #4 Feed Grade Bin Loadout Belt Conveyor and the Tuff Shell Loadout Belt Conveyor commenced within 30 days after such date;
- b. The anticipated start-up date of the FG riverside and FG trackside fabric filters, the #4 Feed Grade Bin Loadout Belt Conveyor and the Tuff Shell Loadout Belt Conveyor postmarked not more than 60 days nor less than 30 days prior to such date;
- c. The actual start-up date of the FG riverside and FG trackside fabric filters, the #4 Feed Grade Bin Loadout Belt Conveyor and the Tuff Shell Loadout Belt Conveyor within 15 days after such date;

Copies of the written notification referenced in items a through c above are to be sent to:

Associate Director  
Office of Air Enforcement (3AP10)  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

(9 VAC 5-50-410, 9 VAC 5-50-50 and 9 VAC 5-80-850)

**33. Notification for Control Equipment Maintenance** - The permittee shall furnish notification to the Air Compliance Manager, West Central Regional Office of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

- a. Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period; and
- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B and 9 VAC 5-80-850)

34. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Air Compliance Manager, West Central Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Air Compliance Manager, West Central Regional Office.  
(9 VAC 5-20-180 C, 9 VAC 5-50-50 and 9 VAC 5-80-850)

### **GENERAL CONDITIONS**

35. **Permit Suspension/Revocation** - This permit may be revoked if the permittee:
- Knowingly makes material misstatements in the permit application or any amendments to it;
  - Fails to comply with the terms or conditions of this permit;
  - Fails to comply with any emission standards applicable to a permitted emissions unit;
  - Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
  - Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time that an application for this permit is submitted;
  - Fails to comply with the applicable provisions of Articles 6, 8 and 9 of 9 VAC 5 Chapter 80.

(9 VAC 5-80-1010)

36. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:
- To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
  - To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;

- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.  
(9 VAC 5-170-130)

37. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.  
(9 VAC 5-50-20 E and 9 VAC 5-80-850 )

38. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.  
(9 VAC 5-20-180 J)

39. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.  
(9 VAC 5-20-180 I and 9 VAC 5-80-850)
40. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Regional Director, West Central Regional Office of the change of ownership within 30 days of the transfer.  
(9 VAC 5-80-940)
41. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.  
(9 VAC 5-80-860 D)

## **[O]SOURCE TESTING REPORT FORMAT**

### Report Cover

1. Plant name and location.
2. Units tested at source (indicate Ref. No. used by source in permit or registration).
3. Test Dates.
4. Tester; name, address and report date.

### Certification

1. Signed by team leader/certified observer (include certification date).
2. Signed by responsible company official.
3. \*Signed by reviewer.

### Copy of approved test protocol

### Summary

1. Reason for testing
2. Test dates
3. Identification of unit tested & the maximum rated capacity.
4. \*For each emission unit, a table showing:
  - a. Operating rate
  - b. Test Methods
  - c. Pollutants tested
  - d. Test results for each run and the run average.
  - e. Pollutant standard or limit.
5. Summarized process and control equipment data for each run and the average, as required by the test protocol.
6. A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results.
7. Any other important information.

### Source Operation

1. Description of process and control devices.
2. Process and control equipment flow diagram.
3. Sampling port location and dimensioned cross section. Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions.

### Test Results

1. Detailed test results for each run.
2. \*Sample calculations
3. \*Description of collected samples, to include audits when applicable.

### Appendix

1. \*Raw production data
2. \*Raw field data
3. \*Laboratory reports
4. \*Chain of custody records for lab samples.
5. \*Calibration procedures and results.
6. Project participants and titles
7. Observers' names (industry and agency)
8. Related correspondence
9. Standard procedures

\*Not applicable to visible emission evaluations.